

One Less Nuclear Power Plant : An Energy Initiative for the Future Generation



Seoul of 2013, an energy-guzzling city





Left: Satellite image of Korea at night (2012, NASA) Above: Bird's eye view of Seoul

Energy consumption : 15 million TOE "Seoul's energy consumption accounts for "5% of the national total" Industry • Public sector



New & Renewable Energy production : 260,000 TOE

"Mere 1.6% of energy consumption in Seoul"

"Waste & Biogas 93.8%, Solar & PV 2%"



Unit : thousand TOE

Seoul's Electricity Self–Supply is Mere 3%!



Sept. 15th, 2011, Seoul, Rolling Black-Out



The Earth Suffering from Extreme Weather Events



Think globally

Act locally









One Less Nuclear Power Plant means ...

"Energy initiative of Seoul to save 2 million TOE equivalent to capacity of one nuclear unit for the future generation"









Seoul Solar Map (http://solarmap.seoul.go.kr/)

"If solar panels are over every building of Seoul, they can produce enough electricity to supply the city.





New & Renewable Energy production

PV plant



[SH District Energy Site Sanggye area: 2.8MW]



[Children's Grand Park: 100kW]

Hydro Fuel Cell power plants :
 230 MW by 2014

Hydro Fuel Cells

- Maintain operation of core urban infrastructure in emergency : 220 MW



- Lay the groundwork for buildings' energy self-sufficiency: 10 MW

Heating Energy



New & Renewable Energy production



Sewage center sludge Production of heat & electricity

[The scheme of Co-generation using biogas]





Energy efficiency improvement



Case of energy efficiency in buildings (Seokkwan-Doosan Apartment, Seongbuk District)



- LED-light dimming system in underground parking lot
- 9,000 USD saved per month
- Payback completed in 14 months



Energy Saved in Korea University

Electricity use (MWh/year)



Electricity bill (KRW/year)



Payback period: 6 years



Energy efficiency improvement







Energy efficiency improvement





Energy-saving citizen lifestyle

Eco-mileage

Energy Guardian Angels

Energy-Saving Model Shops





















One Less Nuclear Power Plant! "A beautiful investment for the future generation"

